



## Material Safety Data Sheet

Issue Date: 05-APR-2007  
Supersedes: 08-MAY-1998

### REFERENCE ELECTRODE FILLING

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## 1 Identification of Product and Company

Identification of substance or preparation  
REFERENCE ELECTRODE FILLING

Reagent Application Area  
Field test reagent

Reagent Code  
L2312

Company/Undertaking Identification  
GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
T 215 355-3300, F 215 953 5524

Emergency Telephone  
(800) 877-1940

Prepared by Product Stewardship Group: 215 355-3300

## 2 Composition / Information On Ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

### HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
7447-40-7	POTASSIUM CHLORIDE Irritant (eyes)	15-40

## 3 Hazards Identification

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EMERGENCY OVERVIEW

### CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable  
Odor: None; Appearance: Colorless, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

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#### POTENTIAL HEALTH EFFECTS

##### ACUTE SKIN EFFECTS:

Primary route of exposure; May cause slight irritation to the skin.

##### ACUTE EYE EFFECTS:

May cause moderate irritation to the eyes.

##### ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

##### INGESTION EFFECTS:

May cause slight gastrointestinal irritation.

##### TARGET ORGANS:

No evidence of potential chronic effects.

##### MEDICAL CONDITIONS AGGRAVATED:

Not known.

##### SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin.

## 4 First Aid Measures

##### SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing.

Get medical attention if irritation develops or persists.

##### EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

##### INHALATION:

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

##### INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician.

Dilute contents of stomach using 3-4 glasses milk or water.

##### NOTES TO PHYSICIANS:

No special instructions

## 5 Fire Fighting Measures

##### FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

##### EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

##### HAZARDOUS DECOMPOSITION PRODUCTS:

hydrogen chloride

##### FLASH POINT:

> 200F > 93C P-M(CC)

## 6 Accidental Release Measures

### PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

### DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

## 7 Handling & Storage

### HANDLING:

Normal chemical handling.

### STORAGE:

Keep containers closed when not in use. Reasonable and safe chemical storage.

## 8 Exposure Controls / Personal Protection

### EXPOSURE LIMITS

#### CHEMICAL NAME

#### POTASSIUM CHLORIDE

PEL (OSHA): NOT DETERMINED

TLV (ACGIH): NOT DETERMINED

### ENGINEERING CONTROLS:

adequate ventilation

### PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I

#### RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

#### SKIN PROTECTION:

rubber gloves-- Wash off after each use. Replace as necessary.

#### EYE PROTECTION:

splash proof chemical goggles

## 9 Physical & Chemical Properties

Specific Grav. (70F,21C)	1.160	Vapor Pressure (mmHG)	14.0
Freeze Point (F)	14	Vapor Density (air=1)	0.70
Freeze Point (C)	-10		
Viscosity(cps 70F,21C)	30	% Solubility (water)	100.0
Odor	None		
Appearance	Colorless		
Physical State	Liquid		
Flash Point	P-M(CC)	> 200F > 93C	
pH As Is (approx.)	6.5		
Evaporation Rate (Ether=1)	< 1.00		

Percent VOC:

ND

NA = not applicable      ND = not determined

## 10 Stability & Reactivity

### STABILITY:

Stable under normal storage conditions.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### INCOMPATIBILITIES:

May react with strong oxidizers.

### DECOMPOSITION PRODUCTS:

hydrogen chloride

### INTERNAL PUMPOUT/CLEANOUT CATEGORIES:

"B"

## 11 Toxicological Information

Oral LD50 RAT: >2,000 mg/kg

NOTE - Estimated value

Dermal LD50 RABBIT: >2,000 mg/kg

NOTE - Estimated value

## 12 Ecological Information

### AQUATIC TOXICOLOGY

No Data Available.

### BIODEGRADATION

No Data Available.

## 13 Disposal Considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

## 14 Transport Information

DOT HAZARD: Not Applicable

PROPER SHIPPING NAME:

DOT EMERGENCY RESPONSE GUIDE #: Not applicable

Note: Some containers may be DOT exempt, please check BOL for exact container classification

## 15 Regulatory Information

**TSCA:**

All components of this product are listed in the TSCA inventory.

**CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):**

No regulated constituent present at OSHA thresholds

**SARA SECTION 312 HAZARD CLASS:**

Immediate (acute)

**SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds

**CALIFORNIA REGULATORY INFORMATION****CALIFORNIA SAFE DRINKING WATER AND TOXIC****ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:**

No regulated constituents present

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other Information

**NFPA/HMIS****CODE TRANSLATION**

Health	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

**CHANGE LOG**

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status:	22-AUG-1995	REVISED FORMAT	** NEW **
	08-MAY-1998	;EDIT:9	22-AUG-1995
	05-APR-2007	5,10	08-MAY-1998